Aeronautics Educator Guide						
2009 Science						
Academic Standards						
Minnesota Science						
Grade 2	State	Ctondondo				
Activity/Lesson	State	Standards	Daisa guartiana abaut the natural world and			
			Raise questions about the natural world and			
			seek answers by making careful observations,			
Air Engines (12 16)	MN	SCI.2.2.1.1.2.1	noting what happens when you interact with an object, and sharing the answers with others.			
Air Engines (12-16)	IVIIN	301.2.2.1.1.2.1	Describe an object's change in position relative			
Air Engines (12-16)	MN	SCI.2.2.2.2.1.1	to other objects or a background.			
All Eligines (12-10)	IVIIN	301.2.2.2.2.1.1	Demonstrate that objects move in a variety of			
Air Engines (12-16)			ways, including a straight line, a curve, a circle,			
	MN	SCI.2.2.2.2.1.2	back and forth, and at different speeds.			
All Eliginos (12-10)	IVIIA	001.2.2.2.2.1.2	Describe how push and pull forces can make			
Air Engines (12-16)	MN	SCI.2.2.2.2.1	objects move.			
Wind in Your Socks)		001.2.2.2.2.2.1	Measure, record and describe weather			
(29-35)	MN	SCI.2.2.3.2.2.1	conditions using common tools.			
(20 00)		Aeronautics Educat				
Activity/Lesson	State	Standards				
			Maintain a record of observations, procedures			
			and explanations, being careful to distinguish			
			between actual observations and ideas about			
Air Engines (12-16)	MN	SCI.3.3.1.1.2.3	what was observed.			
/gco ( o /			Generate questions that can be answered when			
			scientific knowledge is combined with			
			knowledge gained from one's own observations			
Rotor Motor (69-75)	MN	SCI.3.3.1.1.2.1	or investigations.			
			Recognize that the practice of science and/or			
			engineering involves many different kinds of			
Making Time Fly (80-			work and engages men and women of all ages			
86)	MN	SCI.3.3.1.3.2.2	and backgrounds.			
			Generate questions that can be answered when			
Where is North? The			scientific knowledge is combined with			
Compass Can Tell Us			knowledge gained from one's own observations			
(87-90)	MN	SCI.3.3.1.1.2.1	or investigations.			
			Recognize that when a science investigation is			
Dunked Napkin ( 17-			done the way it was done before, even in a			
22)	MN	SCI.3.3.1.1.2.2	different place, a similar result is expected.			
			Construct reasonable explanations based on			
Dunked Napkin (17-			evidence collected from observations or			
22)	MN	SCI.3.3.1.1.2.4	experiments.			
			Provide evidence to support claims other than			
D 14 . /2=			saying "Everyone knows that," or "I just know,"			
Paper Bag Mask (23-			and question such reasons when given by			
28)	MN	SCI.3.3.1.1.1.1	others.			
			Generate questions that can be answered when			
D D 14 1 (65			scientific knowledge is combined with			
Paper Bag Mask (23-	NAN I	001004404	knowledge gained from one's own observations			
28)	MN	SCI.3.3.1.1.2.1	or investigations.			

Paper Bag Mask (23-			Construct reasonable explanations based on evidence collected from observations or
28)	MN	SCI.3.3.1.1.2.4	experiments.
Wind in Your Socks) (29-35)	MN	SCI.3.3.1.1.1.1	Provide evidence to support claims other than saying "Everyone knows that," or "I just know," and question such reasons when given by others.
Wind in Your Socks) (29-35)	MN	SCI.3.3.1.1.2.1	Generate questions that can be answered when scientific knowledge is combined with knowledge gained from one's own observations or investigations.
Wind in Your Socks) (29-35)	MN	SCI.3.3.1.1.2.3	Maintain a record of observations, procedures and explanations, being careful to distinguish between actual observations and ideas about what was observed.
Wind in Your Socks) (29-35)	MN	SCI.3.3.1.1.2.4	Construct reasonable explanations based on evidence collected from observations or experiments.
Bag Balloons (40-43)	MN	SCI.3.3.1.1.2.1	Generate questions that can be answered when scientific knowledge is combined with knowledge gained from one's own observations or investigations.
Sled Kite (44-51)	MN	SCI.3.3.1.1.2.1	Generate questions that can be answered when scientific knowledge is combined with knowledge gained from one's own observations or investigations.
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		2009 Scienc	
		Academic Stand	
Minnesota Science		/ toddonno otane	, di do
Grade 4			
Activity/Lesson	State	Standards	
Where is North? The			
Compass Can Tell Us			Describe how magnets can repel or attract each
(87-90)	MN	SCI.4.4.2.3.1.2	other and how they attract certain metal objects.
Paper Bag Mask (23-			Measure temperature, volume, weight and
28)	MN	SCI.4.4.2.1.1.1	length using appropriate tools and units.
Wind in Your Socks)		00144044	Measure temperature, volume, weight and
(29-35)	MN	SCI.4.4.2.1.1.1	length using appropriate tools and units.
Bag Balloons (40-43)	MN	SCI.4.4.2.1.2.2	Describe how the states of matter change as a result of heating and cooling.